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ChemBioFrance small molecules for health and research

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► **To cite this version:**

Pascal Bonnet, Florence Mahuteau-Betzer, Mikaël Le Clech, Kiet Tran. ChemBioFrance small molecules for health and research. RICT 2025 - 59th International Conference on Medicinal Chemistry, Jul 2025, Orléans, France. <hal-05151514>

HAL Id: hal-05151514

<https://hal.science/hal-05151514v1>

Submitted on 8 Jul 2025

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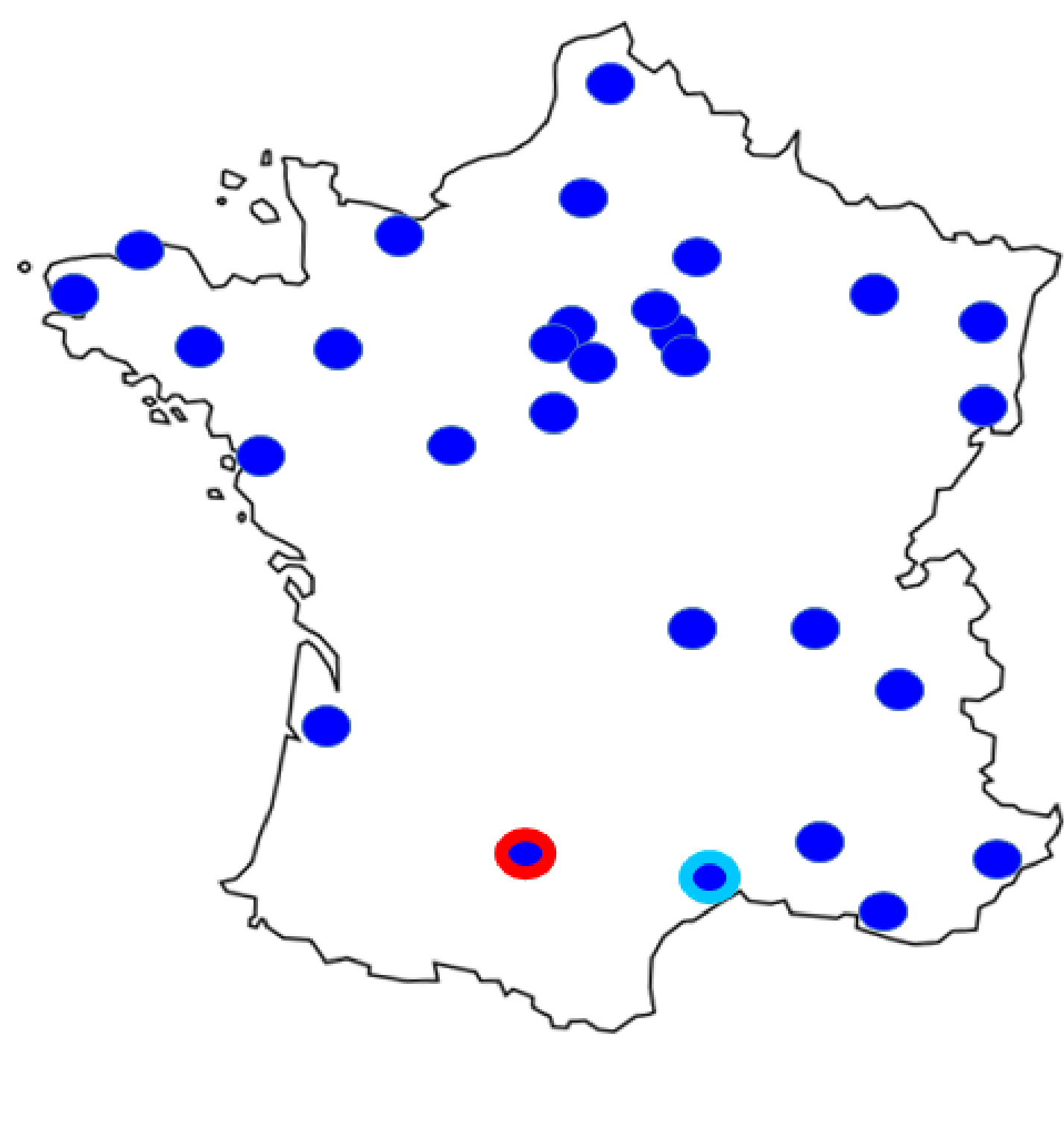
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Who We Are

ChemBioFrance is a National Research Infrastructure launched in October 2018. We offer to academic or private researchers, resources, equipments, services and expertises for the identification and characterization of biologically active molecules, as well as for their development towards pharmacological tools or their use in the fields of the environment, cosmetics, human and animal health.



Approximately 70 researchers and engineers, from academic institutions across France who combine their expertise in organic, medicinal, computational and analytical chemistry, biochemistry, physiology, and model biological systems to accelerate the discovery and development of drug candidates.

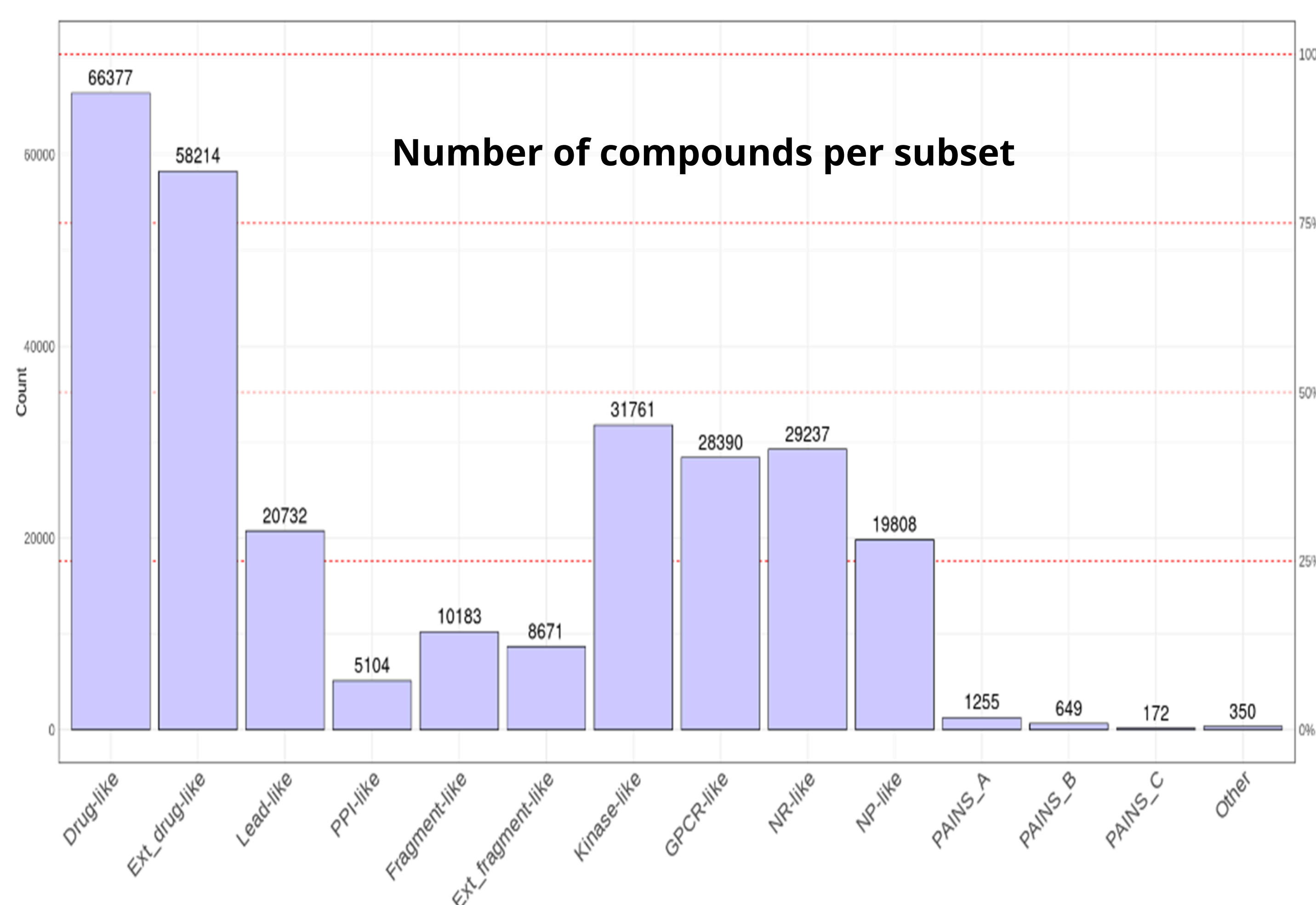
Our pillars

ChemBioFrance is organized around four pillars, coordinated by a support unit based in Montpellier, which also manages user relationships and handles all operational aspects of the infrastructure.

- **The French National Chemical Library:** A centralized collection with 100,000 molecules and 15,500 natural extracts from 48 public labs. Researchers can access these molecules and related data for testing on biological models.
- **Cheminformatics Network:** Eight research labs apply computer models to study molecule properties, target structures, and how molecules interact with targets. They help analyze results and improve biological activity.
- **Screening Platforms:** Nine platforms evaluate biological activities of chemical libraries on various biological systems, from simple targets to 3D cells.
- **ADME-Tox Platforms:** These labs evaluate the absorption, distribution, metabolism, and excretion and toxicity of compounds. They help identify safe molecules, ideal dosage forms, and how the body processes them.

The French National Chemical Library (CN)

- **100,000** compounds available in our free-to-access database
 - Enriched in drug-like, lead-like and fragment-like molecules
 - A high Scaffold-to-Compound ratio
- **70,000** compounds available in 96 or 384 well plates at 5 mM and managed in a compound management facility in Toulouse
- A diversity based **10,000** chemical library
- Customized library (PPI, Kinase, etc...)
- The Essential Chemical Library, a selection of **1040** compounds
- **>15,000** natural extracts



Toward a European Infrastructure

Eu-FNACC

Since 2023, ChemBioFrance and six European partners (Spain, Italy, Switzerland, Austria, Greece, and Finland) have formed the Eu-FNACC (European Federation of National Academic Compound Collections) to create and make accessible a European academic chemical library.

GET IN TOUCH



Why join ChemBioFrance

- Boost the visibility and impact of your molecules: Your compounds will be included in a nationally recognized, searchable collection used by biologists.
- Accelerate real-world applications: Contributed molecules are tested in cutting-edge biological screens and disease models.
- Get valuable feedback and collaboration opportunities

Success stories



Contact

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